

GENERAL NOTES

ORIENTATION OF SIGN FACES

THE CONTRACTOR SHALL BE GOVERNED BY THE STANDARDS AND REQUIREMENTS OF THE FOLLOWING PUBLICATIONS, EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS OF THIS CONTRACT.

DESIGN

F H W A - "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2003 EDITION
AND SUBSEQUENT REVISIONS. (M.U.T.C.D.)

A A S H T O - "HIGHWAY SAFETY DESIGN AND OPERATIONS GUIDE" - 1997

A A S H T O - "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS
LUMINAIRES AND TRAFFIC SIGNALS", 1994 EDITION.

MARYLAND STATE HIGHWAY ADMINISTRATION - "MARYLAND SUPPLEMENT TO THE MANUAL
ON UNIFORM TRAFFIC CONTROL DEVICES." - 1997 EDITION AND SUBSEQUENT REVISIONS.

MARYLAND STATE HIGHWAY ADMINISTRATION - "STANDARD SPECIFICATIONS FOR CONSTRUCTION & MATERIALS", 2001 EDITION AND SUBSEQUENT SUPPLEMENTS.

65 MPH - WOOD SUPPORTS } DISTRICT 1, 2 & 5
90 MPH - ALL OTHER STRUCTURES }

60 MPH - WOOD SUPPORTS } ALL OTHER REMAINING DISTRICTS
80 MPH - ALL OTHER STRUCTURES }

SOIL BEARING PRESSURE - $S = 3,000$ P.S.F. (ASSUMED)
SEE MATERIAL & CONSTRUCTION ABOVE AND SPECIAL PROVISIONS FOR DESIGN
STRESSES FOR STRUCTURAL STEEL, ALUMINUM,
REINFORCING STEEL AND CONCRETE.

ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" X 3/4" CHAMFER.

SIGNS ARE DIVIDED INTO TWO (2) GENERAL CATEGORIES.

- 1 GUIDE SIGNS

A) STRUCTURAL TYPES

 - OH - OVERHEAD
 - C - CANTILEVER
 - GM - GROUND MOUNT, BREAKAWAY OR NON-BREAKAWAY
 - BM - BRIDGE MOUNTED

B) PANELS

 - MATERIAL - EXTRUDED ALUMINUM
 - COPY - DEMOUNTABLE
 - 1) BUTTON REFLECTOR (REVISIONS TO EXISTING SIGNS)
 - 2) HIGH INTENSITY (NEW SIGNS AND REVISIONS TO EXISTING SIGNS)

2 STANDARD SIGNS (REGULATORY, WARNING, ETC.)

A) STRUCTURAL TYPES

 - WOOD SUPPORTS
 - GALVANIZED STEEL 'U' CHANNEL

B) PANELS

 - MATERIAL - SHEET ALUMINUM
 - COPY - NON-DEMOUNTABLE

GUIDE SIGNS

EACH GUIDE SIGN IS IDENTIFIED BY A SIGN NUMBER ON THE PLANS AND IN THE TABULATIONS. PANELS ON GUIDE SIGNS ARE IDENTIFIED WITH A NUMBER AND WHERE VARIATIONS OCCUR, A LOWER CASE LETTER.

STANDARD SIGNS ARE IDENTIFIED BY PANEL NUMBERS AND ARE CLASSIFIED AS FOLLOWS

- R - REGULATORY
- W - WARNING
- M - ROUTE MARKERS AND ACCESSORIES
- D - DESTINATION AND MILEAGE PANELS
- S - SCHOOL

1. GUIDE SIGN PANEL LAYOUTS ARE BASED ON THE FHWA MANUAL NOTED ABOVE.
2. STANDARD SIGN PANEL LAYOUTS ARE BASED ON THE M.U.T.C.D. WITH SPECIFICATIONS DETAILED IN THE MARYLAND STATE HIGHWAY ADMINISTRATION PUBLICATION, 'STANDARD SIGN BOOK', AVAILABLE THROUGH THE SHA CASHIER'S OFFICE.

BACKGROUNDS, BORDERS, TEXTS AND ALL OTHER ELEMENTS OF SIGN PANELS SHALL BE REFLECTORIZED EXCEPT WHERE NOTED.

1. GUIDE SIGNS ARE LOCATED ON THE PLANS BY DIMENSION TO SURVEY STATIONS, OR WHEN NECESSARY, TO IDENTIFIABLE PHYSICAL FEATURES.
2. ALL CHANGES IN THE LOCATIONS OF SIGNS AS SHOWN ON THE PLAN SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

THE ENGINEER DOES NOT WARRANT OR GUARANTEE THE ACCURACY OR COMPLETENESS OF UTILITY INFORMATION SHOWN ON THE PLAN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING FACILITIES WHICH MIGHT BE AFFECTED BY THIS WORK OR HIS




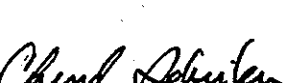
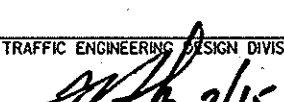

1. VERTICAL ALIGNMENT
POSITION PANEL SO FACE IS PLUMB.

2. HORIZONTAL ALIGNMENT (SEE DIAGRAM ABOVE)
- ON STRAIGHT ROADWAY SECTIONS, ANGLE OF SIGN FACE TO ROADWAY VARIES WITH DISTANCE FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - SEE DIAGRAM.
 - ON THE INSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL MAKES AN ANGLE OF 90° WITH A CHORD BETWEEN A POINT ON NEAR EDGE OF PAVEMENT AT SIGN LOCATION AND A POINT ON EDGE OF PAVEMENT 500' IN ADVANCE OF SIGN.
 - ON THE OUTSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT THE SIGN LOCATION.
 - POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY.

1. VERTICAL ALIGNMENT
 - POSITION PANELS FOR ALL OVERHEAD STRUCTURES SO THAT PANEL FACE IS PLUMB.
2. OVERHEAD SIGN STRUCTURES SHALL NOT BE ERECTED WITHOUT ATTACHING LUMINARIES SUPPORTS AND/OR SIGN.
3. HORIZONTAL ALIGNMENT
 - A). POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE NORMAL EDGE OF ROADWAY, IF ON A STRAIGHT ROADWAY SECTION.
 - B). POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT SIGN LOCATION, IF ON A HORIZONTAL CURVE.
 - C). POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY.
4. VERTICAL CLEARANCE
 - A). OVERHEAD SIGNS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 17'-9" FROM ROADWAY TO THE BOTTOM OF LIGHT FIXTURES. ALL LIGHT FIXTURES ARE TO BE AT THE SAME ELEVATION ONLY ON AESTHETIC STRUCTURES.
 - B). IF THE CONTRACTOR CANNOT OBTAIN 17'-9" (SEE 3A) CLEARANCE, HE IS TO CEASE WORK AND CONTACT THE PROJECT ENGINEER FOR FURTHER INSTRUCTIONS. THE PROJECT ENGINEER MAY CONTACT THE TRAFFIC ENGINEERING DIVISION FOR ASSISTANCE.
 - C). ON UNLIT OVERHEAD SIGNS, THE MINIMUM CLEARANCE TO BOTTOM OF SIGN: 20'-9".

1. ALL NEW SIGNS ON THIS PROJECT ARE TO HAVE NON-REFLECTIVE (BLACK COPY) OR HIGH-INTENSITY REFLECTIVE (ALL OTHER COLORS) SHEETING BACKGROUND AND COPY. REFLECTIVE SHEETING SHALL BE TYPE III ENCAPSULATED LENS REFLECTIVE ELEMENT MATERIAL.
2. ALL NEW EXTRUDED ALUMINUM PANELS ARE TO HAVE DEMOUNTABLE COPY.
3. ALL NEW SHEET ALUMINUM SIGNS ARE TO HAVE NON-DEMOUNTABLE COPY.
4. THE FOLLOWING MINIMUM THICKNESS SHALL BE USED FOR THE APPROPRIATE WIDTH OF SHEET ALUMINUM BLANKS.

<u>LONGEST DIMENSION</u>	<u>MINIMUM THICKNESS</u>
UP TO 12' -----	0.040"
GREATER THAN 12" TO 24" -----	0.063"
GREATER THAN 24" TO 36" -----	0.080"
GREATER THAN 36" TO 48" -----	0.100"
OVER 48" -----	0.125"

PROJECT APPROVALS APPROVALS ARE FOR SIGNING SHEETS: SN- 2.1 THRU SN- 2.2 A TOTAL OF 2 SHEETS		SN-1	
APPROVALS  7-13-05 TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION  7-12-05 ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION  7/15 DIRECTOR, TRAFFIC & SAFETY	REVISIONS	 MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION GENERAL NOTES AND PROPOSAL ITEMS US 40 (PULASKI HIGHWAY) AT EBENEZER ROAD	
DRAWN BY: MRK CHK. BY: BAB SCALE: NONE	F.A.P. NO. S.H.A. NO. COUNTY	SEE TITLE SHEET BA7652176 BALTIMORE	PLAN SHEET NO.: SN-1
		SHEET NO. 37 OF 43	